REMARKS

By the present Amendment, Applicant amends claim 1. Claims 1, 2, 7, 9, 11, 13, and 15 remain pending in this application.

In the final Office Action mailed December 11, 2008¹, the Examiner rejected claims 1, 2, 7, 9, 11, 13, and 15 under 35 U.S.C. § 103(a) as unpatentable over U.S. Patent No. 5,994,762 to Suwanai et al. ("Suwanai") in view of Stanley Wolf et al., "Silicon Processing for the VLSI Era," 2000, Volume 1, Lattice Press, 719-727, 791-795 ("Wolf"), and further in view of U.S. Patent No. 6,770,977 to Kishida et al. ("Kishida"). Applicant respectfully traverses the rejection because the claims as amended are not obvious over the cited references.

The key to supporting any rejection under 35 U.S.C. § 103 is the clear articulation of the reason(s) why the claimed invention would have been obvious. Such an analysis should be made explicit and cannot be premised upon mere conclusory statements. See M.P.E.P. § 2142, 8th Ed., Rev. 6 (Sept. 2007). "A conclusion of obviousness requires that the reference(s) relied upon be enabling in that it put the public in possession of the claimed invention." M.P.E.P. § 2145.

It would not have been obvious for one of ordinary skill to combine the teachings of <u>Suwanai</u>, <u>Wolf</u>, and <u>Kishida</u> to obtain a semiconductor device comprising, *inter alia*, "a first insulating film formed above the semiconductor substrate and having a relative dielectric constant of 3.8 or less" and "a second insulating film covering the outer side face of the conductor and having a relative dielectric constant of over 3.8, at least a part

¹ The final Office Action contains a number of statements reflecting characterizations of the related art and the claims. Regardless of whether any such statement is identified herein, Applicant declines to automatically subscribe to any statement or characterization in the final Office Action.

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of the second insulating film being formed at a same distance from the semiconductor substrate as a part of the first insulating film." Even the combination of teachings from Suwanai, Wolf, and Kishida that was previously suggested by the final Office Action fails to include "a second insulating film covering the outer side face of the conductor . . ., at least a part of the second insulating film being formed at a same distance from the semiconductor substrate as a part of the first insulating film," as recited in claim 1 (emphasis added).

Fig. 11 of <u>Suwanai</u>, which was previously relied upon in the final Office Action, shows a device that includes a semiconductor substrate 1, a wiring 18 formed within a first BPSG (boron-doped phospho silicate glass) film 17, and a silicon oxide film 27.

<u>Suwanai</u> at col. 7, line 66 to col. 8, line 4. <u>Suwanai</u> further shows a second BPSG film 20 formed above the wiring 18, the first BPSG film 17, and the silicon oxide film 27. <u>Id.</u> at col. 8, lines 25-27. The Examiner alleged that the first BPSG film 17 and the silicon oxide film 27 correspond to the claimed "first insulating film," and that the second BPSG film 20 corresponds to the claimed "second insulating film." <u>Final Office Action</u> at page 2. numbered paragraph 4.

Even if the Office Action's allegations were correct, which Applicant does not concede, <u>Suwanai</u> nevertheless fails to teach or suggest "a second insulating film covering the outer side face of the conductor . . ., at least a part of the second insulating film being formed at a same distance from the semiconductor substrate as a part of the first insulating film," as recited in claim 1 (emphasis added). The second BPSG film 20 of <u>Suwanai</u> is not "formed at a same distance from the semiconductor substrate as a part of" the first BPSG film 17, such as recited in claim 1 (emphasis added). Instead,

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the second BPSG film 20 is only formed *above* the first BPSG film 17 and the silicon oxide film 27.

The final Office Action asserts, "Figure 11 clearly shows that both layer [17/27 and 20] are parallel to the semiconductor substrate " Final Office Action at page 5, paragraph 1 (continued from page 4). "Note that if an imaginary line is drawn in the y direction (vertical), the line would intersect both of the layers." Id. However, claim 1 as amended recites that "at least a part of the second insulating film [is] formed at a same distance from the semiconductor substrate as a part of the first insulating film" (emphasis added). The fact that an imaginary vertical line would intersect both layers (17/27) and layer (20) shown in Figure 11 of Suwanai, as asserted in the final Office Action, implies that layers (17/27) are formed at a different distance from the semiconductor substrate (1) than layer (20). Thus, layers (17/27) are not "formed at a same distance" from the semiconductor substrate (1) as layer (20), as recited in claim 1 (emphasis added).

<u>Wolf</u> does not make up for the deficiencies of <u>Suwanai</u> because <u>Wolf</u> also fails to teach or suggest "a second insulating film covering the outer side face of the conductor ..., at least a part of the second insulating film being formed at a same distance from the semiconductor substrate as a part of the first insulating film," as recited in claim 1 (emphasis added). The Examiner does not rely on <u>Wolf</u> for any teaching or suggestion of "a second insulating film ..., at least a part of the second insulating film being formed at a same vertical position on a direction orthogonal to the semiconductor substrate as the first insulating film." as recited in claim 1.

<u>Kishida</u> fails to make up for the deficiencies of <u>Suwanai</u> and <u>Wolf</u> because <u>Kishida</u> also does not teach or suggest "a second insulating film covering the outer side face of the conductor . . . , at least a part of the second insulating film being formed at a same distance from the semiconductor substrate as a part of the first insulating film," as recited in claim 1 (emphasis added). The Examiner does not rely on <u>Kishida</u> for any teaching or suggestion of this limitation in claim 1.

The final Office Action's proposed combination of <u>Suwanai</u>, <u>Wolf</u>, and <u>Kishida</u> fails to teach or suggest the semiconductor device recited in claim 1, and the final Office Action has not identified any reason why one of ordinary skill would *otherwise* modify <u>Suwanai</u>, <u>Wolf</u>, and <u>Kishida</u>, either individually or in combination, to obtain the semiconductor device recited in claim 1. Thus, claim 1 and claims 2, 7, 9, 11, 13, and 15, which depend therefrom, are allowable over <u>Suwanai</u>, <u>Wolf</u>, and <u>Kishida</u>.

CONCLUSION

In view of the foregoing amendments and remarks, Applicant respectfully requests reconsideration of this application and the timely allowance of the pending claims.

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Please grant any extensions of time required to enter this response and charge any additional required fees to Deposit Account No. 06-0916.

Respectfully submitted,

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